

Aty 4

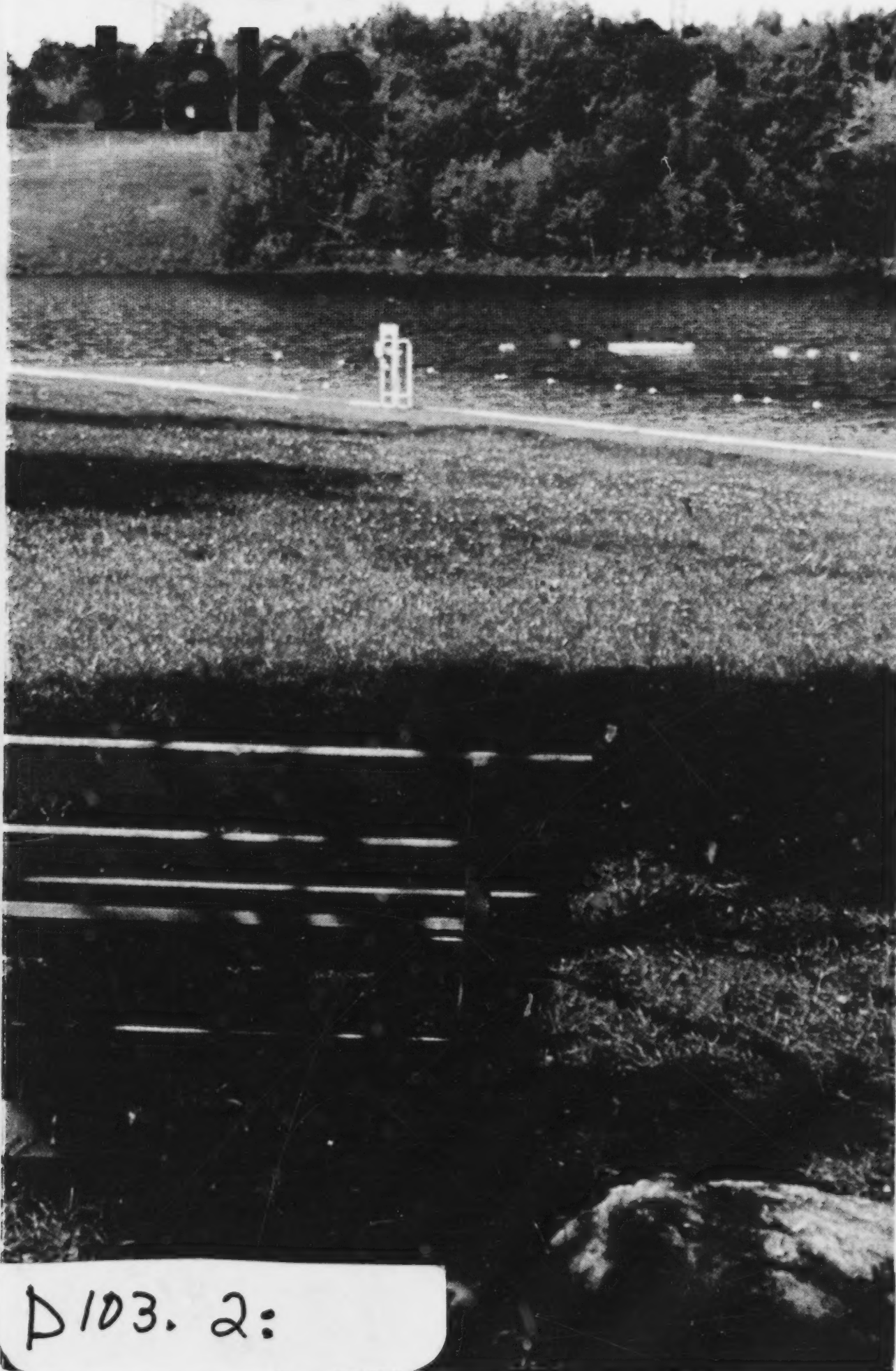


US Army Corps
of Engineers
Baltimore District

NEWARK PUBLIC LIBRARY

Aylesworth Creek

U. S. GOVT. PUBS.
DEPOSITORY 376

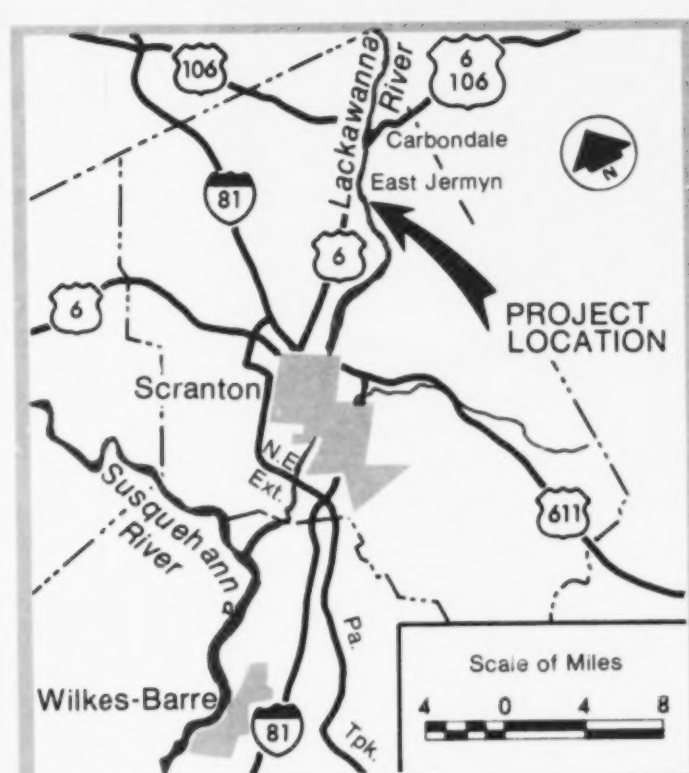


D103. 2:

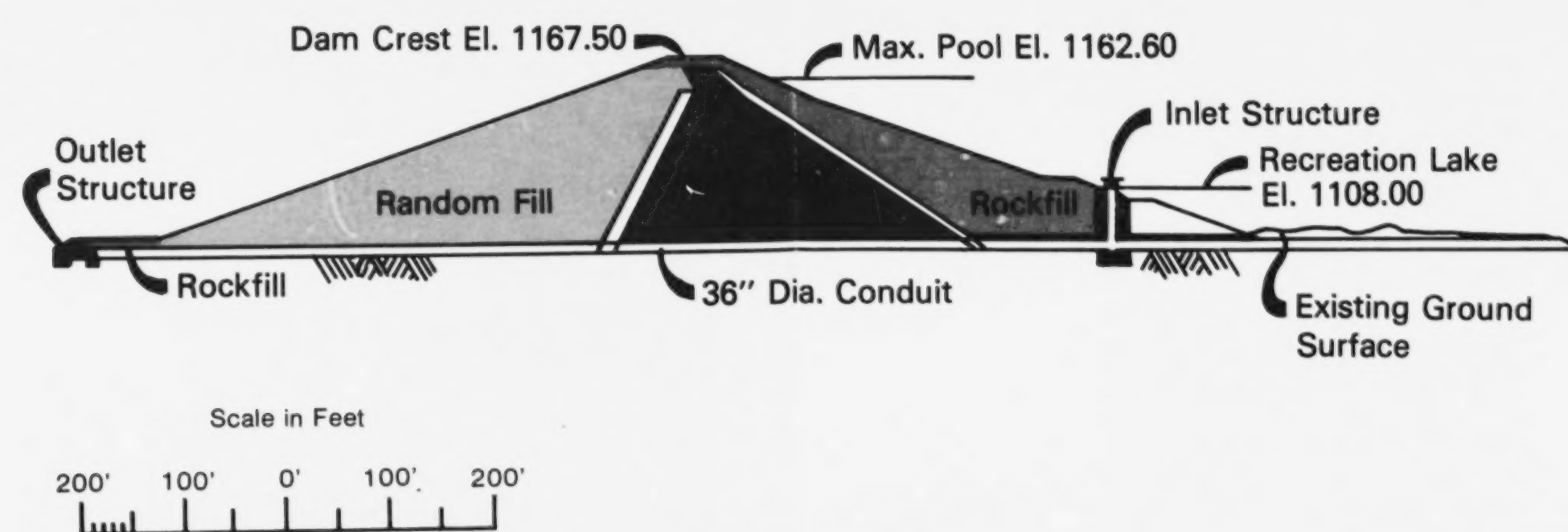
Location

Aylesworth Creek Lake is located near Archbald, in Lackawanna County, Pennsylvania, about 10 miles upstream from Scranton. Highway distances from other locations to the project are as follows:

	miles
Altoona, PA	210
Baltimore, MD	220
Harrisburg, PA	140
Pittsburgh, PA	300
Sunbury, PA	90
Williamsport, PA	95



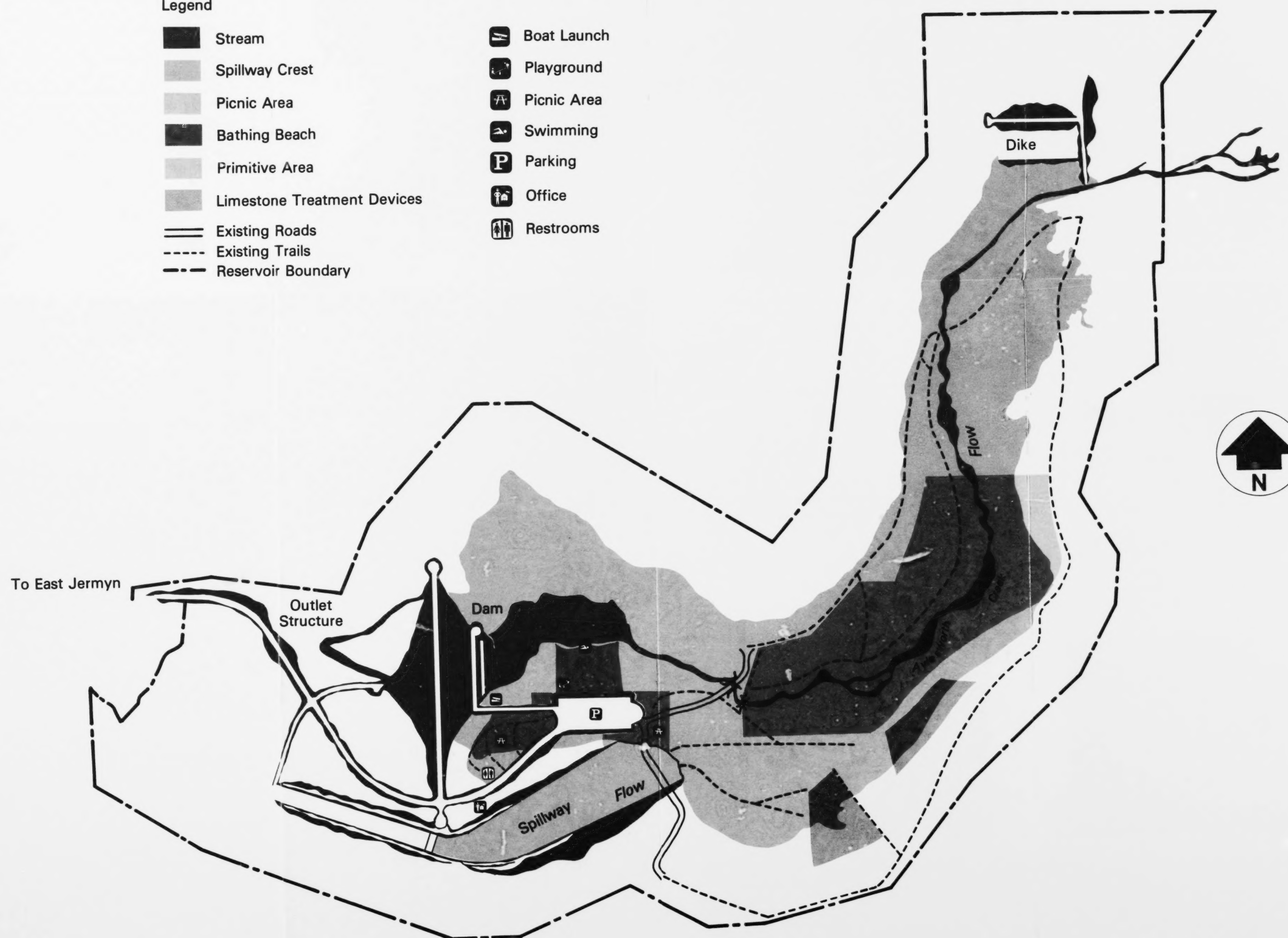
Profile-Outlet Works



Recreation Lake Area

Legend

- | | |
|-----------------------------|-------------|
| Stream | Boat Launch |
| Spillway Crest | Playground |
| Picnic Area | Picnic Area |
| Bathing Beach | Swimming |
| Primitive Area | Parking |
| Limestone Treatment Devices | Office |
| Existing Roads | Restrooms |
| Existing Trails | |
| Reservoir Boundary | |



200 0 200 400
Scale in Feet

Aylesworth Creek Lake

Aylesworth Creek Lake was authorized by the Flood Control Act of 23 October 1962, Public Law 87-874, 87th Congress. The dam is an earth and rockfill structure located on Aylesworth Creek, approximately 1 mile above its confluence with the Lackawanna River. Access to the lake area is by road from East Jermyn, Pennsylvania, and at the dam a new road climbs the south abutment to the top of the dam and upstream parking area. The uncontrolled outlet structure maintains a permanent lake. An uncontrolled spillway channel was excavated in rock in the south abutment of the dam. At spillway crest the lake formed by flood water would amount to 5.1 inches of rainfall runoff from the watershed. An auxiliary dike is provided on the north bank of Aylesworth Creek to prevent flow from the lake into the Mayfield Creek drainage basin during high lake elevations. The project was operationally complete in August 1970.

Purpose

Aylesworth Creek Lake, in combination with Stillwater Lake on the Lackawanna River, will reduce flood stages downstream along the Lackawanna River, offering protection to the communities of Olyphant, Dickson City, Scranton, Moosic, Old Forge, and Duryea.

Operation and Safety

The operation of the dam for flood control does not require any gate adjustments. Flood storage occurs when the runoff to the lake exceeds the capacity of the 3-foot diameter discharge conduit. This excess water will pond behind the dam until runoff decreases sufficiently to permit the lake to

recede. The spillway is provided to pass excess flows when the storage capacity of the lake has been reached. The Aylesworth Creek Lake project was designed and constructed under strict Corps of Engineers criteria and is inspected on a regular basis.



Relocations and Real Estate

Construction of the project required the relocation of several power lines and a water line and the acquisition of approximately 252 acres of land.

Water Quality Management

The Pennsylvania Department of Environmental Resources has installed and maintains a lime barrel treatment system upstream of the reservoir. The treatment improves the quality of the slightly acidic water in the lake.

Recreation

The Aylesworth Creek Reservoir Park Authority, an organization created by the Boroughs of Archbald and Jermyn, in cooperation with the Corps of Engineers, operates and maintains facilities at the lake for both summer and winter recreation. There are facilities available for such summer activities as picnicking, small sailboating and rowboating, fishing, hiking, horseback riding, and open areas for organized sports. A beach and bathhouse are located at the reservoir area.

**Project
Data**

General

Stream . . Aylesworth Creek
Drainage area
at dam 6.2 sq. mi.

Reservoir

Spillway elevation above
mean sea level 1,150.0 ft.
Storage capacity for
flood-control 1,700 ac.ft.*
Storage capacity of
permanent
lake 64.0 ac.ft.*
Area
Spillway crest . . 87 acres
Permanent lake . . 7 acres

Dam

Type . . . Earth and rockfill
Length 1,270 ft.

Height above
streambed 90 feet
Width
Top 25 feet
Base (maximum) 560 feet

Spillway

Type Excavated
channel with paved
crest or sill
Length of sill 80 feet
Height of sill above
streambed at centerline
of dam 73 feet

*One acre foot = 326,000
gallons.

